Sage Digital ENDEC

Next Generation Emergency Alert System Encoder/Decoder

The Sage Digital ENDEC incorporates the legacy and reliability of the original best selling Sage ENDEC with the latest developments in EAS and CAP alerting. The Sage Digital ENDEC uses an Internet connection to allow remote, secure activation, system monitoring and uploading of software releases.

Experience, the same team that developed the original ENDEC (the first FCC certified Part 11 device) and has supported EAS since it was first deployed, continues with the next generation Digital ENDEC. Sage is a founding member of the ECIG industry interoperability group.

Networked, allows for remote monitoring, setup, and alert activation by busy staff, or control of multiple stations and ENDECS from a single location. Web-based alert interface allows multiple users to see incoming alerts at the same time. Email, FTP, HTTP logging text and audio, keeps you on top of compliance issues. Monitor the EAS audio sources remotely via streaming audio. Send weekly tests and forward alerts from the web page, GPIO, or the automation interface.

Ready for CAP (Common Alerting Protocol) the Sage Digital ENDEC has text to speech built in, and we include a **free** software update to support the CAP 1.2 software standard.

Drop In Replacement for the original ENDEC, the Digital ENDEC provides the same hardware and software interface, while adding the new CAP and networking features. Reduce staff training; add the new features at your pace, as you need them. The original ENDEC's internal strip printer is replaced by a plethora of other logging options.

Compatible with a wide range of industry standards, works with a wide range of character generators, automation systems, multi-station panels, Sage remote controls, LED signs, and other third-party peripherals. If it worked with the original ENDEC, it will work with the Digital ENDEC.

Field Programmable, its flash based software can be updated with its on-board web server.

Highlights

- LAN connection for remote control, setup, software update, notifications, monitoring via streaming audio.
- USB connections for printer, additional LAN, additional storage.
- Five GP inputs for triggering tests and forwarding alerts for up to four stations.
- Four GP dry contact closures for automation interface or status display.
- Logging via web page display, USB printer(HP), network printer(HP), email, FTP. Email, FTP, and Web logs include audio and text.
- Time of day synchronized with Network Time Protocol (NTP).
- All solid state data storage.
- Not a PC, high reliability.
- Sage "Generic CGEN" industry standard character generator interface.
- ENDEC software included at no charge.
- Free software upgrade to CAP 1.2.
- "All in one" CAP and EAS solution. No CAP converter required.
- An FCC Part 11 certified device, and has also successfully completed the FEMA Conformity Assessment program for CAP and IPAWS.
- Can support multiple stations by traditional all at once or sequential relay with external relay panel, or supports overlapping alerts with external ENDEC Smart Relay Panel.

SAGE ALERTING SYSTEMS

Sage Digital ENDEC Specifications

Audio Inputs
- Six unbalanced analog EAS monitor inputs
- One AES/EBU digital audio program in /station pass-through
- One balanced stereo analog XLR program in /station pass-through
- One unbalanced low level microphone audio input
- One unbalanced analog local audio input

Audio Outputs
- One AES/EBU digital audio alert audio insert/station pass-through
- One balanced stereo analog XLR alert audio insert/station pass-through
- One unbalanced line out – analog multi-station interface or local audio

Data Interface
- Six serial ports, DB-9, for relay panel interface, hand held remote control, CG control, LED display, automation, etc.
- Two USB connectors, for printer, additional storage
- Five GP inputs for automation interface, trigger of RWT or forward of alerts on up to four stations
- Four dry contact closures for automation interface

Character Generator
- The ENDEC interfaces with devices from Chyron, Compix, Evertz, Harris, Miranda, VDS, XBob and others supporting the Sage Generic CGEN interface. Fox Slicer scheduled for Fall 2010
- DVS-168

LAN Interface
- One 10/100 rj-45 LAN connection. Additional physical connections with user-supplied USB to Ethernet adapters. Addressing is DHCP or static
- HTTP/HTTPS web browser for programming, status updates, control, maintenance
- NTP protocol for setting time of day
- EMAIL for logging and other status messages, supports STARTTLS, alternate ports, SSL

Certification
- Part 11, FCC ID V2W3644

User Interface
- Browser based control
- Legacy SAGE front panel interface, 4x20 LCD
- Five status LEDS, plus GPO status

Mechanical
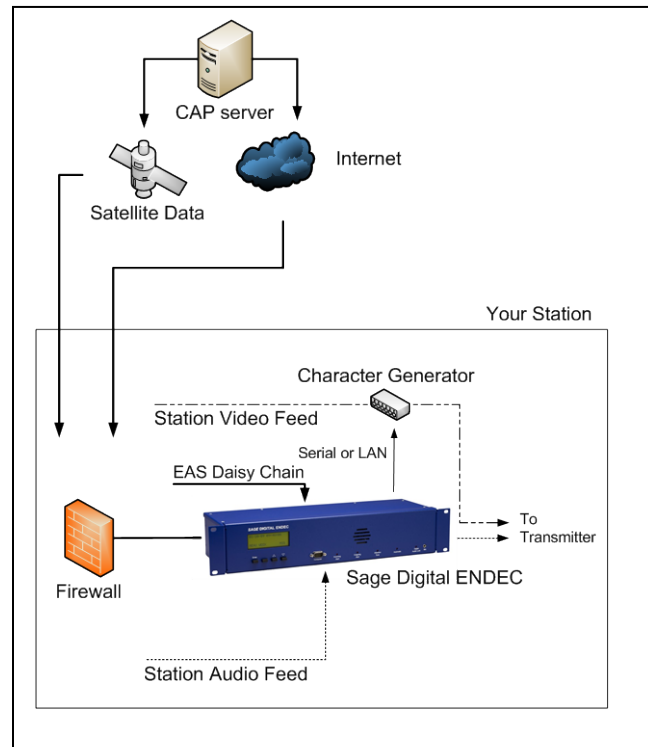- Dimensions 2U 19" EIA rack mount
  19"W x 3.5"H x 6.5" D
- 4.3 lbs(shipping weight with power supply ~8 lbs)

Electrical
- 19 VDC @ 1A, external 3A switching power supply provided 120 VAC @ ~ 1A

Common Alerting Protocol

Sage has already demonstrated CAP compatibility by passing the FEMA Conformity Assessment program, and by participating in interoperability demonstrations such as the FEMA demo at NAB in April 2010 and 2011. We continue to work through industry groups such as the EAS-CAP Industry Group (www.eas-cap.org) to enhance interoperability standards and to keep the ENDEC updated with the latest versions. Sage provides a free software update to previous owners of the Digital ENDEC 3644 to bring it up to the CAP compliant level.

Typical CAP/EAS station